

[ELECTRON EMITTER INCLUDING CARBON NANOTUBES AND ITS APPLICATION IN GAS DISCHARGE DEVICES]

Abstract of Disclosure

An electron emitter includes a coating layer of a mixture of carbon nanotubes and alkali-earth metal oxides on an electrically conducting structure. The preferred carbon nanotubes are those having a diameter less than about 200 nm. A substantial portion of electron emission is liberated from the carbon nanotubes, thus lessening the requirement on the alkali-earth oxides. Such an electron emitter is advantageously used in gas discharge devices to increase the energy efficiency thereof.

Figures

Figure 1: A schematic diagram of a neural network architecture. The diagram shows a sequence of layers: an input layer, followed by a hidden layer, and an output layer. The input layer is connected to the hidden layer, which is in turn connected to the output layer. The diagram also shows a feedback loop from the output layer back to the input layer. The diagram is labeled with 'Input', 'Hidden', and 'Output' layers, and a 'Feedback' loop.